

March 14, 2013

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF TRANSPORTATION  
RHODE ISLAND CONTRACT NO.2013-CM-026  
FEDERAL-AID PROJECT NO. FAP Nos: STP-9999(076)

**Statewide Guardrail Repair and Replacement 2013-2015**

Statewide  
CITY/TOWN OF  
COUNTY OF

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 1 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

**A. General Provisions - Contract Specific**

1. Page CS-4

Remove page CS-4 in its entirety and replace it with revised page CS-4(R-1) attached to this Addendum No. 1. A sentence has been added to paragraph B.

**B. Specification Change/Addition**

1. Page JS-i

Remove page JS-i in its entirety and replace it with revised page JS-i(R-1) attached to this Addendum No. 1. The name of Item Code 901.9904 "M14x18 Guardrail Blockout" has changed to "M14x18 Guardrail Block" to better depict the name used in the RI Standard Details.

2. Pages JS-11 and JS-11a

Remove page JS-11 in its entirety and replace it with revised page JS-11(R-1) and insert new page JS-11a attached to this Addendum No. 1. The Materials and Basis of Payment sections of Item Code 901.9902 "Guardrail Post In Ledge, RI STD 34.1.2" have been modified.

3. Page JS-13

Remove page JS-13 in its entirety and replace it with revised page JS-13(R-1) attached to this Addendum No. 1. The item name and Description section have been modified for Item Code 901.9904 "M14x18 Guardrail Block".

4. Pages JS-60 and JS-60a

Remove page JS-60 in its entirety and replace it with revised page JS-60(R-1) and insert new page JS-60a attached to this Addendum No. 1. The Materials and Basis of Payment sections have been modified for Item Code 901.9942 "Terminal End Section (Single Face), RI STD 34.3.2". The Construction Method section has been added for Item Code 901.9942 "Terminal End Section (Single Face), RI STD 34.3.2".

5. Pages JS-61 and JS-61a

Remove page JS-61 in its entirety and replace it with revised page JS-61(R-1) and insert new page JS-61a attached to this Addendum No. 1. The Materials and Basis of Payment sections have been modified for Item Code 901.9943 "Thrie Beam Terminal End (Similar to RI STD 34.3.2)". The Construction Method section has been added for Item Code 901.9943 "Thrie Beam Terminal End (Similar to RI STD 34.3.2)".

6. Page JS-67

Remove page JS-67 in its entirety and replace it with revised page JS-67(R-1) attached to this Addendum No. 1. The last sentence of the Description section has been modified for Item Code 901.9947 "Cable High Tension Guardrail Post (All Types and Shapes) & Reattach Cables & Re-Tension Cables".

7. Page JS-83

Remove page JS-83 in its entirety and replace it with revised page JS-83(R-1) attached to this Addendum No. 1. The Materials and Basis of Payments sections have been modified for Item Code 901.9965 "Guardrail Pedestal Post (All Types)".

8. Pages JS-84 and JS-84a

Remove page JS-84 in its entirety and replace it with revised page JS-84(R-1) and insert new page JS-84a attached to this Addendum No. 1. The Materials and Basis of Payments sections have been modified for Item Code 901.9966 "Rustic (Weathering Steel) Post".

9. Pages JS-92 and JS-92a

Remove page JS-92 in its entirety and replace it with revised page JS-92(R-1) and insert new page JS-92a attached to this Addendum No. 1. The Materials and Basis of Payments sections have been modified for Item Code 901.9972 "Metalized and Painted Steel Guardrail Post In Ledge, RI STD 34.1.2".

10. Pages JS-115 and JS-115a

Remove page JS-115 in its entirety and replace it with revised page JS-115(R-1) and insert new page JS-115a attached to this Addendum No. 1. The Materials and Basis of Payment sections have been modified for Item Code 901.9987 "Metalized and Painted Guardrail Pedestal Post (All Types)".

11. Page JS-118

Remove page JS-118 in its entirety and replace it with revised page JS-118(R-1) attached to this Addendum No. 1. The Materials and Basis of Payment sections have been modified for Item Code 901.9995 "Guardrail Box-Beam Pedestal Post".

**C. Distribution of Quantities**

1. Index Pages 1 - 4

Remove Index pages 1 - 4 in their entirety and replace them with revised Index pages 1(R-1), 2(R-1), 3(R-1) and 4(R-1) attached to this Addendum No. 1. The Index has been revised.

2. Page 2

Remove page 2 in its entirety and replace it with revised page 2(R-1) attached to this Addendum No. 1. The quantities for Item Code 901.9901 "Guardrail Post (All RI Standard Types Except RI STD 34.1.2 & Pedestal Post)" and Item Code 901.9903 "Composite and Wood Guardrail Blockout (All Types and Sizes)" have been revised.

3. Page 14

Remove page 14 in its entirety and replace it with revised page 14(R-1) attached to this Addendum No. 1. The item name for Item Code 901.9969 "Rustic (Weathering Steel) W Beam 12.5' BY 12" Rail w/Prepunched or Drilled Holes" has been modified to be in line with its specification language.

4. Page 17

Remove page 17 in its entirety and replace it with revised page 17(R-1) attached to this Addendum No. 1. The item name for Item Code 901.9984 "Metalized and Painted Steel W Beam 12.5' BY 12" Rail w/Prepunched or Drilled Holes" has been modified to be in line with its specification language.

  
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RI Department of Transportation  
Chief Engineer

3. **SPECIAL NOTICES TO THE CONTRACTOR - ITEMS**

- A. The unit bid prices for all items include the furnishing of all materials, tools and equipment, and labor necessary to complete the work specified by the Contract. The Department of Transportation will not supply material for the installation and/or repair of the items indicated in the Proposal.
- B. There will be no direct payment for any hardware, unless otherwise noted, required to properly complete the installation of guardrail in accordance with the Manufacturer's Specifications, the Standard Specifications as amended and all Compilations of Approved Specifications, the Specifications - Job Specific included in the Contract Documents, the Rhode Island Standard Details or the Special Details contained in the Contract Documents. Hardware shall include all nuts, bolts and washers of the items in this Contract. The Contractor shall not reuse nuts, bolts, and washers. Other hardware reuse will be at the discretion of the Engineer. The term 'bolts in concrete' shall refer to both concrete or mortar.
- C. When work is being done in an area that requires repair/replacement and it is noted that hardware is missing on a nearby item that does not need to be replaced, the installation of new hardware on that item shall be considered incidental work to the item being repaired/replaced; there will be no separate payment.
- D. Should the guardrail on County Road (Rt. 114) adjacent to Central Bridge in Barrington be damaged and in need of repair/replacement as determined by the Engineer, the labor, materials, and tools and equipment needed to reset the existing 1" mesh PVC coated woven wire fence attached to the guardrail shall be considered incidental work to the item being repaired/replaced; there will be no separate payment.
- E. Clearing and Grubbing will not be paid for as a separate work item; it shall be considered incidental work to the bid items.
- F. Excavation and the satisfactory placement and compaction, or disposal, of all materials encountered within and around the post hole locations for all types of guardrail and protective devices shall be considered incidental work to the bid items; there will be no separate payment. This includes where posts used to be and where post hole locations are no longer needed/used. Holes shall be backfilled with material acceptable to the Engineer, the Materials Engineer and compacted in accordance with Section 202, Excavation and Embankment, and Section 203, Structure Excavation and Backfill, of the Standard Specifications as amended and all Compilations of Approved Specifications. If precast foundations are used, gravel borrow, flowable fill, or approved equal are to be used, in accordance with the Standard Specifications as amended and all Compilations of Approved Specifications, instead of processed common borrow.
- G. The "Common Borrow" and "Gravel Borrow" Items listed in the Proposal are intended for areas that are in excess of the excavation and compaction areas for post hole locations. They are intended for supplemental surface preparation and are not to be paid for as fill for post hole locations.
- H. Surface preparation shall be considered incidental work to the bid items; there will be no separate payment. This includes grooming the surface area so that careful workmanship can be achieved. This applies to guardrail and other protective devices as well as delineation stickers.

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**CODE 901.9902**

**GUARDRAIL POST IN LEDGE, RI STD 34.1.2**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install all components for the placement/replacement of posts installed in ledge, RI STD 34.1.2 as directed by the Engineer and the removal of the existing post and legal disposal off site. This item shall not be for posts used with metalized and painted guardrail. This item shall be used when posts in ledge are needed or replaced, and if a rail is also being placed/replaced, that component shall use Item Code 901.9907, 901.9908, 901.9916, 901.9917, 901.9921, or 901.9922. Should there be resulting holes left behind from existing post removal or voids near post placement, the holes shall be filled in and compacted with material in accordance with Section 202, Excavation and Embankment, and Section 203, Structure Excavation and Backfill, of the Standard Specifications, as amended and all Compilations of Approved Specifications. as directed by the Engineer.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications. The mortar or concrete material shall be of sufficient strength to allow for a post installation in the repair area without deformation. The Contractor may use a very rapid hardening mortar in accordance with subsection 817 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach 2000 psi in twenty-four (24) hours. The Contractor may also use class A concrete in accordance with Section 600 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach a 3000 psi in four (4) days. The Contractor may use precast concrete in accordance with subsection 809 and the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications, and in which case the concrete shall be class XX in accordance with the Standard Specifications, as amended and all Compilations of Approved Specifications.

**METHOD OF MEASUREMENT:** “GUARDRAIL POST IN LEDGE, RI STD 34.1.2” will be measured by the number of such units furnished and installed per “each” basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of “GUARDRAIL POST IN LEDGE, RI STD 34.1.2” will be paid at its respective contract unit price per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, post, hardware, mortar or concrete, sonotube, grout, wet sand fill hand compacted, tools and equipment, clearing and grubbing, excavation, filling in and compacting holes/voids from post removal/placement with material in accordance with Section 202 and Section 203 of the Standard Specifications, as amended and all Compilations of Approved Specifications, surface preparation, removal of existing post and legal disposal off site, removal of debris and legal disposal off site, removal of snow up to a depth of 13 inches and legal disposal off site and all other incidentals required to finish the work, complete in place and accepted by the Engineer.

**This item shall not be used for payment of posts installed under ITEM CODES 901.9905, 901.9909, 901.9910, 901.9911, 901.9914, 901.9915, 901.9918, 901.9919, 901.9920, 901.9944, 901.9953, 901.9954, 901.9955, 901.9956, 901.9957, 901.9958, 901.9959, 901.9997, 901.9998, 902.9901, 916.9901, 916.9902, 916.9903, and 916.9904 as said items include payment of installed posts. While those items do not necessarily include posts in ledge, if there is a section that needs to be replaced this item will replace the posts and if a rail is also being placed/replaced, that item shall use Item Code 901.9907, 901.9908, 901.9916, 901.9917, 901.9921, or 901.9922.**

**This item shall not be used for payment of metalized and painted posts in ledge. Those posts will be paid for separately under the “METALIZED AND PAINTED STEEL GUARDRAIL POST IN LEDGE, RI STD 34.1.2” Proposal Item.**

**CODE 901.9904**

**M14x18 GUARDRAIL BLOCK**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install M14x18 guardrail block with hardware connection to the post used as the modified thrie beam blockout within the RI standard thrie beam guardrail, RI STD 34.5.3 and 34.5.4, TL-4, as directed by the Engineer and the removal of the existing block with hardware connection to the post and legal disposal off site. This item shall be used when blocks are being replaced but the rail and posts are not also being replaced or when extra blocks are needed beyond the scope of the RI Standard.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications.

**METHOD OF MEASUREMENT:** "M14x18 GUARDRAIL BLOCK" will be measured by the number of such units furnished and installed per "each" basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** "M14x18 GUARDRAIL BLOCK" will be paid at its respective contract unit price bid per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, tools and equipment, clearing and grubbing, surface preparation, removal of the existing block with hardware connection to the post and legal disposal off site, removal of debris and legal disposal off site, removal of snow up to a depth of 13 inches site and legal disposal off site and all other incidentals required to finish the work, complete in place and accepted by the Engineer.

**This item shall not be used for payment of blocks installed under ITEM CODES 901.9919 and 901.9920 as said items include payment of installed blocks.**



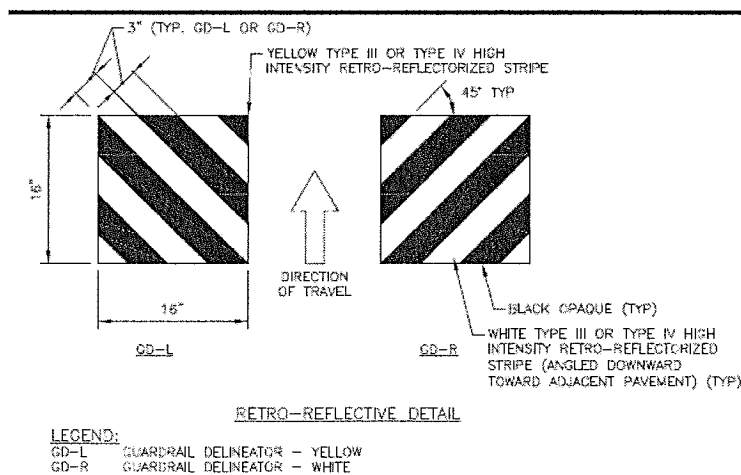
**CODE 901.9942**

**TERMINAL END SECTION (SINGLE FACE), RI STD 34.3.2**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install all components for the replacement of a terminal end section (single face) with hardware, RI STD 34.3.2 as directed by the Engineer including furnishing and installing a guardrail end terminal delineator affixed to the terminal end and the removal of the existing terminal end section and hardware and legal disposal off site.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications.

The guardrail end terminal delineator shall be an adhesive-coated yellow or white reflective sheeting applied with a pressure sensitive adhesive backing. The reflective sheeting shall be Type III high or Type IV high intensity retro-reflective sheeting. The reflective sheeting shall have a smooth weather-resistant outer surface, and shall have a pre-coated pressure-sensitive adhesive, which will adhere to a flat steel or aluminum backing. The adhesive shall have no staining effect on the reflective sheeting, and shall be mildew resistant. All materials shall be subject to the approval of the Engineer. Reference the drawing below.



**CONSTRUCTION METHODS:** The terminal end shall be installed per the manufacturer's recommendations and in accordance with this specification.

The guardrail end terminal delineator is to be installed on the nose of the guardrail terminal end section with adhesive in accordance with the manufacturer's recommendations and in accordance with this specification. The delineator shall cover the nose of the guardrail terminal end section, and the width of the sheeting shall be installed at the center of the nose curvature. In cases where the delineator is too large, the delineator shall be cut to match the guardrail terminal end.

The protective linear attached to the adhesive shall be removable by peeling without soaking in water or other solvents and shall be easily removed after accelerate storage for 4 hours at 160°F under weight of 2.5 pounds per square inch. The linear may be marked on the exposed side with the manufacturer's identification, application instructions, or other information commonly included on the manufacturer's commercial product.

The reflective sheeting shall be applied to properly treated base panels in a manner specified by the sheeting manufacturer. The finished delineators shall show careful workmanship; be free of burrs, scratches, or damaged reflective sheeting and shall have a smooth surface.

**METHOD OF MEASUREMENT:** "TERMINAL END SECTION (SINGLE FACE), RI STD 34.3.2" will be measured by the number of such units furnished and installed per "each" basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of "TERMINAL END SECTION (SINGLE FACE), RI STD 34.3.2" will be paid at its respective contract unit price per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, end piece, hardware, tools and equipment, clearing and grubbing, surface preparation, reflector units, removal of existing terminal end section and hardware and legal disposal off site, removal of debris and legal disposal off site, removal of snow up to a depth of 13 inches and legal disposal off site and all other incidentals required to finish the work, complete in place and accepted by the Engineer.

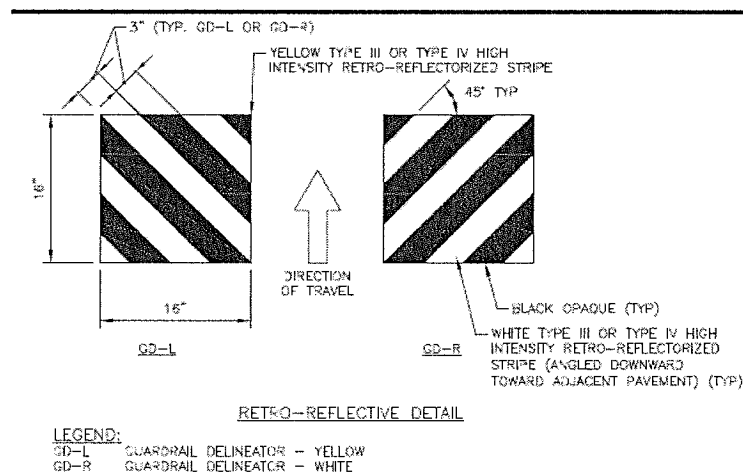
**CODE 901.9943**

**THRIE BEAM TERMINAL END (SIMILAR TO RI STD 34.3.2)**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install all components for the replacement of a thrie beam terminal end (similar to RI STD 23.3.2) with hardware, as directed by the Engineer including furnishing and installing a guardrail end terminal delineator affixed to the terminal end and the removal of the existing thrie beam terminal end and hardware and legal disposal off site.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications.

The guardrail end terminal delineator shall be an adhesive-coated yellow or white reflective sheeting applied with a pressure sensitive adhesive backing. The reflective sheeting shall be Type III high or Type IV high intensity retro-reflective sheeting. The reflective sheeting shall have a smooth weather-resistant outer surface, and shall have a pre-coated pressure-sensitive adhesive, which will adhere to a flat steel or aluminum backing. The adhesive shall have no staining effect on the reflective sheeting, and shall be mildew resistant. All materials shall be subject to the approval of the Engineer. Reference the drawing below.



**CONSTRUCTION METHODS:** The terminal end shall be installed per the manufacturer's recommendations and in accordance with this specification.

The guardrail end terminal delineator is to be installed on the nose of the guardrail terminal end section with adhesive in accordance with the manufacturer's recommendations and in accordance with this specification. The delineator shall cover the nose of the guardrail terminal end section, and the width of the sheeting shall be installed at the center of the nose curvature. In cases where the delineator is too large, the delineator shall be cut to match the guardrail terminal end.

The protective linear attached to the adhesive shall be removable by peeling without soaking in water or other solvents and shall be easily removed after accelerated storage for 4 hours at 160°F under weight of 2.5 pounds per square inch. The linear may be marked on the exposed side with the manufacturer's identification, application instructions, or other information commonly included on the manufacturer's commercial product.

The reflective sheeting shall be applied to properly treated base panels in a manner specified by the sheeting manufacturer. The finished delineators shall show careful workmanship; be free of burrs, scratches, or damaged reflective sheeting and shall have a smooth surface.

**METHOD OF MEASUREMENT:** "THRIE BEAM TERMINAL END (SIMILAR TO RI STD 34.3.2)" will be measured by the number of such units furnished and installed per "each" basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of "THRIE BEAM TERMINAL END (SIMILAR TO RI STD 34.3.2)" will be paid at its respective contract unit price per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, end piece, hardware, tools and equipment, clearing and grubbing, surface preparation, removal of existing terminal end section and hardware and legal disposal off site, removal of debris and legal disposal off site, removal of snow up to a depth of 13 inches and legal disposal off site and all other incidentals required to finish the work, complete in place and accepted by the Engineer.

**CODE 901.9947**

**CABLE HIGH TENSION GUARDRAIL POST (ALL TYPES AND SHAPES)  
& REATTACH CABLES & RE-TENSION CABLES**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install all components for the replacement of a cable high tension guardrail post (all types and shapes) reattached to the cables including the reattachment pieces such as but not limited to the j-hooks, galvanized hairpins and lock plates with delineation stickers applied to the applicable posts all as directed by the Engineer including the removal of the existing post along with the attachment pieces and legal disposal off site. Furthermore, once the cable high tension guardrail posts are installed and reattached to the cables this work includes re-tensioning the cables (all types) per the manufacturer's specifications and as directed by the Engineer. At a minimum, re-tensioning is required for each cable at the crash location.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications.

The delineation stickers shall be adhesive-coated yellow reflective sheeting applied with a pressure sensitive adhesive backing. The reflective sheeting shall be Type III high or Type IV high intensity retro-reflective sheeting. The reflective sheeting shall have a smooth weather-resistant outer surface, and shall have a pre-coated pressure-sensitive adhesive, which will adhere to a flat steel or aluminum backing. The adhesive shall have no staining effect on the reflective sheeting, and shall be mildew resistant. All materials shall be subject to the approval of the Engineer.

**CONSTRUCTION METHODS:** The cable guardrail post shall be installed per the manufacturer's recommendations and in accordance with this specification. The tension meter device shall be calibrated in accordance with the manufacturer's specifications.

**METHOD OF MEASUREMENT:** "CABLE HIGH TENSION GUARDRAIL POST (ALL TYPES AND SHAPES) & REATTACH CABLES & RE-TENSION CABLES" will be measured by the number of such units furnished and installed per "each" basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of "CABLE HIGH TENSION GUARDRAIL POST (ALL TYPES AND SHAPES) & REATTACH CABLES & RE-TENSION CABLES" will be paid at its respective contract unit price per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, post, reattachment pieces such as but not limited to the j-hooks, galvanized hairpins and lock plates, delineation stickers applied to applicable posts, hardware, re-tensioning, tools and equipment, clearing and grubbing, surface preparation, existing cable

**CODE 901.9965**

**GUARDRAIL PEDESTAL POST (ALL TYPES)**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install all components for the replacement of a guardrail pedestal post (all types) which has a steel plate configuration on the bottom of the post and bolts in concrete as directed by the Engineer and the removal of the existing pedestal post and bolts in concrete and legal disposal off site. These posts are used at locations such as but not limited to on bridges. The pedestal post base shall be on level undamaged concrete. This work includes performing all operations necessary to provide concrete repair in areas as directed by the Engineer and the removal of any broken concrete and other debris in the area for pedestal post installation. Should there be resulting holes left behind from existing post removal or voids near post placement, the holes shall be filled in and compacted with material in accordance with Section 202, Excavation and Embankment, and Section 203, Structure Excavation and Backfill, of the Standard Specifications, as amended and all Compilations of Approved Specifications.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications. The mortar or concrete material shall be of sufficient strength to allow for a post installation in the repair area without deformation. The Contractor may use a very rapid hardening mortar in accordance with subsection 817 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach 2000 psi in 24 hours. The Contractor may also use class A concrete in accordance with Section 600 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach a 3000 psi in four (4) days.

**METHOD OF MEASUREMENT:** "GUARDRAIL PEDESTAL POST (ALL TYPES)" will be measured by the number of such posts installed on per "each" basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of "GUARDRAIL PEDESTAL POST (ALL TYPES)" will be paid at its respective contract unit price per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, post, hardware including bolts in concrete, mortar or concrete, removal of existing concrete and legal disposal off site, tools and equipment, drilling, grout, clearing and grubbing, excavation, filling in and compacting holes/voids from post removal with material in accordance with Section 202 and Section 203 of the Standard Specifications, as amended and all Compilations of Approved Specifications, surface preparation, removal of existing post and legal disposal off site, removal of debris and legal disposal off site, removal of snow up to a depth of 13 inches and legal disposal off site and all other incidentals required to finish the work, complete in place and accepted by the Engineer.

**CODE 901.9966**

**RUSTIC (WEATHERING STEEL) POST**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install all components for the replacement of all rustic (weathering steel) RI Standard guardrail posts as directed by the Engineer and the removal of the existing post and legal disposal off site. This item shall include but not be limited to RI Standard wood posts and steel posts at all sizes such as size 6x9 and the extended guardrail posts for all the different types of Rhode Island Standard guardrail, posts in ledge, pedestal posts, rustic energy absorbing and non-energy absorbing terminal posts. It shall not include posts used with cable guardrail. This item shall be used when posts are being replaced but the rail is not being replaced or when extra posts are needed beyond the scope of the RI Standard. Should there be resulting holes left behind from existing post removal or voids near post placement, the holes shall be filled in and compacted with material in accordance with Section 202, Excavation and Embankment, and Section 203, Structure Excavation and Backfill, of the Standard Specifications, as amended and all Compilations of Approved Specifications.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications. The mortar or concrete material shall be of sufficient strength to allow for a post installation in the repair area without deformation. The Contractor may use a very rapid hardening mortar in accordance with subsection 817 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach 2000 psi in twenty-four (24) hours. The Contractor may also use class A concrete in accordance with Section 600 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach a 3000 psi in four (4) days. The Contractor may use precast concrete in accordance with subsection 809 and the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications, and in which case the concrete shall be class XX in accordance with the Standard Specifications, as amended and all Compilations of Approved Specifications.

**METHOD OF MEASUREMENT:** "RUSTIC (WEATHERING STEEL) POST" will be measured by the number of such units furnished and installed per "each" basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of "RUSTIC (WEATHERING STEEL) POST" will be paid at its respective contract unit price per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, post, mortar or concrete, sonotube, grout, wet sand fill hand compacted, tools and equipment, clearing and grubbing, excavation, filling in and compacting holes/voids from post removal/placement with material in accordance with Section 202 and Section 203 of the Standard Specifications, as amended and all Compilations of Approved Specifications, surface preparation, removal of existing post and legal disposal off site, removal of debris and legal disposal off site, removal of snow up to a depth of 13 inches and legal disposal off site and all

other incidentals required to finish the work, complete in place and accepted by the Engineer.

**This item shall not be used for payment of posts installed under ITEM CODES 901.9969 as said item includes payment of installed posts.**



**CODE 901.9972**

**METALIZED AND PAINTED STEEL GUARDRAIL POST IN LEDGE, RI STD 34.1.2**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install all components for the placement/replacement of metalized and painted steel posts installed in ledge, RI STD 34.1.2 as directed by the Engineer and the removal of the existing post and legal disposal off site. This item shall be used when posts in ledge are needed or replaced, and if a rail is also being placed/replaced, that component shall use Item Code 901.9974 or 901.9980. Should there be resulting holes left behind from existing post removal or voids near post placement, the holes shall be filled in and compacted with material in accordance with Section 202, Excavation and Embankment, and Section 203, Structure Excavation and Backfill, of the Standard Specifications, as amended and all Compilations of Approved Specifications, as directed by the Engineer.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications. The mortar or concrete material shall be of sufficient strength to allow for a post installation in the repair area without deformation. The Contractor may use a very rapid hardening mortar in accordance with subsection 817 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach 2000 psi in twenty-four (24) hours. The Contractor may also use class A concrete in accordance with Section 600 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach a 3000 psi in four (4) days. The Contractor may use precast concrete in accordance with subsection 809 and the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications, and in which case the concrete shall be class XX in accordance with the Standard Specifications, as amended and all Compilations of Approved Specifications. Metalizing shall comply with Section 827 of the Standard Specifications, as amended and all Compilations of Approved Specifications. Painting shall comply with Section 825 of the Standard Specifications, as amended and all Compilations of Approved Specifications; however, in place of zinc rich primer, additional coats of paint shall be applied directly on top of the metalized surface. The paint colors include but are not limited to white, black and brown. The paint color will be as directed by the Engineer. The Contractor shall present a sample of the color for approval prior to ordering the item.

**METHOD OF MEASUREMENT:** "METALIZED AND PAINTED STEEL GUARDRAIL POST IN LEDGE, RI STD 34.1.2" will be measured by the number of such units furnished and installed per "each" basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of "METALIZED AND PAINTED STEEL GUARDRAIL POST IN LEDGE, RI STD 34.1.2" will be paid at its respective contract unit price per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, post, hardware, mortar or concrete, sonotube, grout, wet sand fill hand compacted, tools

and equipment, clearing and grubbing, excavation, filling in and compacting holes/voids from post removal/placement with material in accordance with Section 202 and Section 203 of the Standard Specifications, as amended and all Compilations of Approved Specifications, surface preparation, removal of existing post and legal disposal off site, removal of debris and legal disposal off site, removal of snow up to a depth of 13 inches and legal disposal off site and all other incidentals required to finish the work, complete in place and accepted by the Engineer.

**This item shall not be used for payment of posts installed under ITEM CODES 901.9972, 901.9973, 901.9975, 901.9976, 901.9979, 901.9981, and 901.9982 as said items include payment of installed posts. While those items do not necessarily include posts in ledge, if there is a section that needs to be replaced this item will replace the posts and if a rail is also being placed/replaced, that item shall use Item Code 901.9974 or 901.9980.**

**CODE 901.9987**

**METALIZED AND PAINTED GUARDRAIL PEDESTAL POST (ALL TYPES)**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install all components for the placement/replacement of a metalized and painted guardrail pedestal post (all types) which has a steel plate configuration on the bottom of the post and bolts in concrete as directed by the Engineer and the removal of the existing pedestal post and bolts in concrete and legal disposal off site. These posts are used at locations such as but not limited to on bridges. The pedestal post base shall be on level undamaged concrete. This work includes performing all operations necessary to provide concrete repair in areas as directed by the Engineer and the removal of any broken concrete and other debris in the area for pedestal post installation. Should there be resulting holes left behind from existing post removal or voids near post placement, the holes shall be filled in and compacted with material in accordance with Section 202, Excavation and Embankment, and Section 203, Structure Excavation and Backfill, of the Standard Specifications, as amended and all Compilations of Approved Specifications.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications. The mortar or concrete material shall be of sufficient strength to allow for a post installation in the repair area without deformation. The Contractor may use a very rapid hardening mortar in accordance with subsection 817 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach 2000 psi in 24 hours. The Contractor may also use class A concrete in accordance with Section 600 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach a 3000 psi in four (4) days. Metalizing shall comply with Section 827 of the Standard Specifications, as amended and all Compilations of Approved Specifications. Painting shall comply with Section 825 of the Standard Specifications, as amended and all Compilations of Approved Specifications; however, in place of zinc rich primer, additional coats of paint shall be applied directly on top of the metalized surface. The paint colors include but are not limited to white, black and brown. The paint color will be as directed by the Engineer. The Contractor shall present a sample of the color for approval prior to ordering the item.

**METHOD OF MEASUREMENT:** “METALIZED AND PAINTED GUARDRAIL PEDESTAL POST (ALL TYPES)” will be measured by the number of such posts furnished and installed per “each” basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of “METALIZED AND PAINTED GUARDRAIL PEDESTAL POST (ALL TYPES)” will be paid at its respective contract unit price per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, post, hardware including bolts in concrete, mortar or concrete, removal of existing concrete and legal disposal off site, tools and equipment, drilling, grout, clearing and grubbing, excavation, filling in and compacting holes/voids from post removal/placement with material in accordance with Section 202 and Section 203 of the Standard Specifications, as amended and all Compilations of Approved Specifications,

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surface preparation, removal of existing post and legal disposal off site, removal of debris and legal disposal off site, removal of snow up to a depth of 13 inches and legal disposal off site and all other incidentals required to finish the work, complete in place and accepted by the Engineer.

**CODE 901.9995**

**GUARDRAIL BOX-BEAM PEDESTAL POST**

**DESCRIPTION:** This work consists of performing all operations necessary to furnish and install all components for the replacement of a guardrail box-beam pedestal post and bolts in concrete as directed by the Engineer and the removal of the existing pedestal post and bolts in concrete and legal disposal off site. These posts are weak posts that are used at locations such as but not limited to on bridges. The pedestal post base shall be on level undamaged concrete. This work includes performing all operations necessary to provide concrete repair in areas as directed by the Engineer and the removal of any broken concrete and other debris in the area for pedestal post installation. Should there be resulting holes left behind from existing post removal or voids near post placement, the holes shall be filled in and compacted with material in accordance with Section 202, Excavation and Embankment, and Section 203, Structure Excavation and Backfill, of the Standard Specifications, as amended and all Compilations of Approved Specifications.

**MATERIALS:** Materials shall conform to the applicable requirements of subsection M of the Standard Specifications, as amended and all Compilations of Approved Specifications. The mortar or concrete material shall be of sufficient strength to allow for a post installation in the repair area without deformation. The Contractor may use a very rapid hardening mortar in accordance with subsection 817 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach 2000 psi in 24 hours. The Contractor may also use class A concrete in accordance with Section 600 of the Standard Specifications, as amended and all Compilations of Approved Specifications, and additionally it must reach a 3000 psi in four (4) days.

**METHOD OF MEASUREMENT:** "GUARDRAIL BOX-BEAM PEDESTAL POST" will be measured by the number of such posts furnished and installed per "each" basis, complete, and accepted in place by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of "GUARDRAIL BOX-BEAM PEDESTAL POST" will be paid at its respective contract unit price per each as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, post, hardware including bolts in concrete, mortar or concrete, removal of existing concrete and legal disposal off site, tools and equipment, drilling, grout, clearing and grubbing, excavation, filling in and compacting holes/voids from post removal/placement with material in accordance with Section 202 and Section 203 of the Standard Specifications, as amended and all Compilations of Approved Specifications, surface preparation, removal of existing post and legal disposal off site, removal of debris and legal disposal off site, removal of snow up to a depth of 13 inches and legal disposal off site and all other incidentals required to finish the work, complete in place and accepted by the Engineer.

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201.9902	REALIGNMENT OF GUARDRAIL POST (ALL TYPES AND LENGTHS)	1
201.9903	EMERGENCY RESPONSE - TRAFFIC CONTROL GENERAL CLEANUP	1
202.0700	COMMON BORROW	1
202.0800	GRAVEL BORROW	1
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601.9901	CLASS A CONCRETE FOOTING CAST IN PLACE FOR USE WITH RI STD 34.3.1 & 34.3.4	2
601.9902	CONCRETE FOOTING FOR CABLE HIGH TENSION GUARDRAIL POSTS (ALL TYPES AND SHAPES) PRECAST	2
901.9901	GUARDRAIL POST (ALL RI STANDARD TYPES EXCEPT RI STD 34.1.2 & PEDESTAL POST)	2
901.9902	GUARDRAIL POST IN LEDGE, RI STD 34.1.2	2
901.9903	COMPOSITE AND WOOD GUARDRAIL BLOCKOUT (ALL TYPES AND SIZES)	2
901.9904	M14X18 GUARDRAIL BLOCKOUT	3
901.9905	STEEL W BEAM SINGLE FACE GUARDRAIL IN EARTH AND ASPHALT, RI STD 34.1.0 & 34.2.0	3
901.9907	STEEL W BEAM RAIL (12.5' BY 12")	3
901.9908	STEEL W BEAM RADIUS RAIL (12.5' BY 12")	3
901.9909	STEEL W BEAM DOUBLE NESTED GUARDRAIL USED FOR SPANNING OVER UNDERGROUND STRUCTURES	3
901.9910	STEEL W BEAM SINGLE FACE GUARDRAIL WITH RUB RAIL IN EARTH AND ASPHALT, RI STD 34.1.0 & 34.2.0	3
901.9911	STEEL W BEAM DOUBLE FACE GUARDRAIL WITH RUB RAIL IN EARTH AND ASPHALT, RI STD 34.1.0 & 34.2.0	4
901.9912	STEEL BEAM RUB RAIL SECTION (12' BY 6")	4
901.9913	STEEL W BEAM TO STEEL THRIE BEAM GUARDRAIL TRANSITION RAIL (AVAILABLE FOR TL-3 AND TL-4 THRIE BEAM)	4
901.9914	STEEL THRIE BEAM SINGLE FACE GUARDRAIL IN EARTH AND ASPHALT WITH COMPOSITE BLOCKOUT, TL-3	4
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901.9917	STEEL THRIE BEAM RADIUS RAIL (12.5' BY 20")	5
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901.9919	STEEL THRIE BEAM SINGLE FACE GUARDRAIL IN EARTH AND ASPHALT, RI STD 34.1.0 & 34.5.3, TL-4	5
901.9920	STEEL THRIE BEAM DOUBLE FACE GUARDRAIL IN EARTH AND ASPHALT, RI STD 34.1.0 & 34.5.4, TL-4	6
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901.9922	STEEL THRIE BEAM RADIUS RAIL (25' BY 20")	6
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901.9949	CABLE TERMINAL RELEASE POST (1 THRU 3), UPPER POST & REATTACH CABLE & RE-TENSION CABLE	11
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007	601.9901	CLASS A CONCRETE FOOTING CAST IN PLACE FOR USE WITH RI STD 34.3.1 & 34.3.4 STATEWIDE STATEWIDE	EACH	15.00	0021	01
Item 601.9901 Total:				15.00		
008	601.9902	CONCRETE FOOTING FOR CABLE HIGH TENSION GUARDRAIL POSTS (ALL TYPES AND SHAPES) PRECAST STATEWIDE STATEWIDE	EACH	50.00	0021	01
Item 601.9902 Total:				50.00		
009	901.9901	GUARDRAIL POST (ALL RI STANDARD TYPES EXCEPT RI STD 34.1.2 & PEDESTAL POST) STATEWIDE STATEWIDE	EACH	650.00	0021	01
Item 901.9901 Total:				650.00		
010	901.9902	GUARDRAIL POST IN LEDGE, RI STD 34.1.2 STATEWIDE STATEWIDE	EACH	25.00	0021	01
Item 901.9902 Total:				25.00		
011	901.9903	COMPOSITE AND WOOD GUARDRAIL BLOCKOUT (ALL TYPES AND SIZES) STATEWIDE STATEWIDE	EACH	650.00	0021	01
Item 901.9903 Total:				650.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
069	901.9965	Cont. STATEWIDE		100.00	0021	01
Item 901.9965 Total:				100.00		
070	901.9966	RUSTIC (WEATHERING STEEL) POST STATEWIDE STATEWIDE	EACH	30.00	0021	01
Item 901.9966 Total:				30.00		
071	901.9967	RUSTIC (WEATHERING STEEL) W BEAM RAIL (12.5 BY 12") OR RADIUS RAIL STATEWIDE STATEWIDE	EACH	20.00	0021	01
Item 901.9967 Total:				20.00		
072	901.9968	RUSTIC (WEATHERING STEEL) BUFFER END PIECE (COMPONENT OF RI STD 34.3.1) STATEWIDE STATEWIDE	EACH	6.00	0021	01
Item 901.9968 Total:				6.00		
073	901.9969	RUSTIC (WEATHERING STEEL) W BEAM 12.5' BY 12" RAIL W/PREPUNCHED OR DRILLED HOLES STATEWIDE STATEWIDE	EACH	5.00	0021	01
Item 901.9969 Total:				5.00		
074	901.9970	RUSTIC (WEATHERING STEEL) TERMINAL END SECTION (SINGLE FACE), RI STD 34.3.2 STATEWIDE	EACH			

## Distribution of Quantities

Project Name - Statewide Guardrail Repair and Replacement 2013-2015  
 Estimate Name - Addendum to Statewide Guardrail Repair and Replacement 2013-2015  
 Estimate  
 R.I. Contract No. - 2013-CM-026  
 FAP Nos: STP-9999(076)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
083	901.9979	Cont.		50.00		
Item 901.9979 Total:				50.00		
084	901.9980	METALIZED AND PAINTED STEEL THRIE BEAM RAIL (12.5' BY 20") OR RADIUS RAIL STATEWIDE STATEWIDE	EACH	5.00	0021	01
Item 901.9980 Total:				5.00		
085	901.9981	METALIZED AND PAINTED GUARDRAIL END TREATMENT - NON-ENERGY ABSORBING TERMINAL STATEWIDE STATEWIDE	EACH	2.00	0021	01
Item 901.9981 Total:				2.00		
086	901.9982	METALIZED AND PAINTED GUARDRAIL END TREATMENT - ENERGY ABSORBING TERMINAL STATEWIDE STATEWIDE	EACH	6.00	0021	01
Item 901.9982 Total:				6.00		
087	901.9983	METALIZED AND PAINTED BUFFER END PIECE (COMPONENT OF RI STD 34.3.1) STATEWIDE STATEWIDE	EACH	10.00	0021	01
Item 901.9983 Total:				10.00		
088	901.9984	METALIZED AND PAINTED STEEL W BEAM 12.5' BY 12" RAIL W/PREPUNCHED OR DRILLED HOLES	EACH			